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A NEW GERMAN GEOGRAPHICAL JOURNAL.[1]—This is a new periodical designed to present, from time to time, a brief but excellent digest of the progress of geographical science, with its literature. It is printed in large octavo form, with clean type and on excellent paper, so that it presents an excellent appearance. There are no less than twelve collaborators from all parts of Germany and Switzerland, representing some of the best known geographers in Europe. In the third number there is a long account of the history of the Hayden Geological and Geographical Survey of the Territories, with the entire catalogue of publications printed in detail.

FAVRE'S GEOLOGY OF THE CANTON OF GENEVA.[2]—This important work of M. Favre may be regarded as an exhaustive monograph of the geological, archæological and agricultural resources of the Canton of Geneva, Switzerland, and therefore local in its character. Local treatises of this kind are not uncommon in Europe; many of them have been written of limited areas in France, and it would be an advantage if studies of this kind were made of the more interesting and complicated districts in our own country.

The work commences with a preface and a preliminary chapter defining its object to be mainly the application of geology to agriculture. A chapter follows describing in a brief manner the elements of the science, and then the principal formations within the limits of the Canton, are noted in detail. The Quaternary and the present superficial formations are described in great detail and in a masterly manner. The portion treating of the glacial period is of great interest, and is well worthy of careful study.

Numerous analyses of rocks and soils are given, and a considerable portion of the book is devoted to a minute study of the rocks and minerals of the canton. At the end of Tome II are eight large folded plates of geological and archæological illustrations, finely engraved. Accompanying the work are four maps on a scale of $\frac{1}{25000}$, upon which the geology is shown in minute detail. The entire work is a contribution to science worthy of the illustrious author of "Recherches Geologique de la Savoie, du Piedmont et de la Suisse voisines du Mont Blanc."

RECENT BOOKS AND PAMPHLETS.—Manual of the New Zealand Mollusca. By Fred. W. Hutton. 8vo, pp. 224, 1880. From the author.

International Exhibition, Sydney. Appendix to Official Catalogue. 8vo, pp. 67, 1880. From the company.

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[1] *Zeitschrift für wissenschaftliche Geographie.* Edited by J. I. KETTLER, Lohr. in Baden, with the aid of numerous able Collaborators. Band I, Heft 1, 2, 3.

[2] *Description Géologique du Canton de Genève.* Par ALPHONSE FAVRE, Professeur emerite a l'Academie de Geneve, Correspondant de l'Institut de France, pour servis a l'application de la Carte Geologique du meme auteur. Tomes I and II, pp. 292. $1.50. (Extrait du Bulletin de la class d'Agriculture de la Societe des Arts de Geneve.)

West Tennessee: its Resources and Advantages. By J. B. Killebrew. 8vo, pp. 93, 1880. From the author.

On the Physical Structure and Hypsometry of the Catskill Mountain region. By Arnold Guyot. (From Amer. Jour. Sci., Vol. XIX, June, 1880.) 8vo, pp. 22, maps 2. From the author.

Geological and Natural History Survey of North Carolina. Part III—Botany. By M. A. Curtis. 8vo, pp. 156, 1867.

The Felsites and their Associated Rocks north of Boston. (From Proc. Boston Soc. Nat. Hist., Vol. XX, Jan. 21, 1880.) By J. S. Diller. 8vo, pp. 12, 1880. From the author.

Proceedings of the Academy of Natural Sciences of Philadelphia. 8vo, pp. 152, 10 pls. Pt. I, 1880. From the academy.

Catalogue of North American Musci. Arranged by Eugene A. Rau and A. B. Hervey. 8vo, pp. 52, 1880. From the authors.

Korte Bidrag til nordisk Ichthyographi. III Gronlands og Islands Lycoder. Med Bemærkninger om andre nordiske Arter. (Aftryk af Vidensk. Meddel. fra den naturhist. Foren. i Kbhvn. 1879-1880.) By Dr. Chr. Lütken. 8vo, pp. 26, 1880. From the author.

Le Globe Lenox de 1511, Traduit de l'anglais par Gabriel Gravier. 8vo, pp. 26, 1880. From the author.

Découverte d'un Squelette entier de Rytiodus dans le Falun Aquitanien. (Ext. des Actes de la Société Linnéenne de Bordeaux.) Par M. E. Delfortrie. 4to, pp. 16, pls. 4, 1880. From the author.

The Orthonectida, a new class of the Phylum of the Worms. (From Quart. Journ. Micros. Sci.) By Alfred Giard. 8vo, pp. 15, pl. 1, 1880. From the author.

Zur Anatomie und Physiologie des Nervensystems der Nemertinen. Von A. A. W. Hubrecht. 4to, pp. 47, pls. 4, 1880. From the author.

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GENERAL NOTES.

BOTANY.

CHANGES IN PLANT LIFE ON THE SAN FRANCISCO PENINSULA.[1]—We are not very apt to notice changes that gradually and progressively prepare themselves in our surroundings. We have no room in our journals for facts of every-day occurrence, and at the same time these gradual changes offer more analogies to the great secular changes that have preceded the present state of our globe, and give more material for the study of evolutions than all floods, earthquakes and other cataclysms.

All vegetation of our earth is subject to secular changes, and it is not necessary to go to the fossil plants, imbedded in coal, to find ample proofs for this axiom. The bogs of Northern Europe, the lacustrine dwellings of the Alpine regions, show in different strata the remainders of different forest trees; and in the Atlantic States many acute observers have noticed that the birch gradually supersedes the conifers.

Such a process of change, of course, is accelerated if to the secular process of change is added the powerful agent of human

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[1] The following essay, which will be of interest to all botanists and observers of plant growth generally, was read at the meeting of the Academy of Sciences, Feb. 2d, by Dr. Herman Behr, of San Francisco, and appeared in the *Rural Press*.